

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

401 M Street, S.W.
WASHINGTON, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

DATA MATRIX

Date Sept. 19, 2008			EPA Reg No./File Symbol 82957-L		Page of 15
Applicant's/Registrant's Name & Address Ensystem III, Inc. 2713 Breezewood Ave. Fayetteville, NC 28302			Product Abamectin Technical		
Ingredient Abamectin					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
Product Chemistry Data Requirements					
830.1550	Product Identity and Composition	46925201 47268001	Ensystem III, Inc. Ensystem III, Inc.	OWN OWN	
830.1600	Description of Materials Used to Produce the Product	46925201 47268001	Ensystem III, Inc. Ensystem III, Inc.	OWN OWN	
830.1620	Description of Production Process	46925201 47268001	Ensystem III, Inc. Ensystem III, Inc.	OWN OWN	
830.1650	Description of Formulation Process				Not required ¹
830.1670	Discussion of Formation of Impurities	46925201 47268001	Ensystem III, Inc. Ensystem III, Inc.	OWN OWN	
830.1700	Preliminary Analysis	46925201 47275501	Ensystem III, Inc. Ensystem III, Inc.	OWN OWN	
830.1750	Certified Limits	46925201 47268001	Ensystem III, Inc. Ensystem III, Inc.	OWN OWN	
830.1800	Enforcement Analytical Method	46925201 47275501	Ensystem III, Inc. Ensystem III, Inc.	OWN OWN	
Signature			Name and Title Janelle Kay, Consultant		Date

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Ingredient Abamectin					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.6302	Color	46925202	Ensystem III, Inc.	OWN	
		46925203	Ensystem III, Inc.	OWN	
		47268003	Ensystem III, Inc.	OWN	
830.6303	Physical State	46925202	Ensystem III, Inc.	OWN	
		46925203	Ensystem III, Inc.	OWN	
		47268003	Ensystem III, Inc.	OWN	
830.6304	Odor	46925202	Ensystem III, Inc.	OWN	
		46925203	Ensystem III, Inc.	OWN	
		47268003	Ensystem III, Inc.	OWN	
830.6313	Stability to Normal and Elevated Temperatures, Metals, and Metal Ions	46925202	Ensystem III, Inc.	OWN	
		46925203	Ensystem III, Inc.	OWN	
		47268003	Ensystem III, Inc.	OWN	
830.6314	Oxidation/Reduction: Chemical Incompatibility				Not required ²
830.6315	Flammability				Not required ²
830.6316	Explosibility				Not required ²
830.6317	Storage Stability				Not required ²
830.6319	Miscibility				Not required ²
830.6320	Corrosion Characteristics				Not required ²
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Ingredient Abamectin					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.6321	Dielectric Breakdown Voltage				Not required ²
830.7000	pH	46925202 46925203 47268003	Ensystem III, Inc. Ensystem III, Inc. Ensystem III, Inc.	OWN OWN OWN	
830.7050	UV/Visible Absorption	46925202 46925203 47268003	Ensystem III, Inc. Ensystem III, Inc. Ensystem III, Inc.	OWN OWN OWN	
830.7100	Viscosity				Not required ²
830.7200	Melting Point/Melting Range	46925202 46925203 47268003	Ensystem III, Inc. Ensystem III, Inc. Ensystem III, Inc.	OWN OWN OWN	
830.7220	Boiling Point/Boiling Range				Not required ³
830.7300	Density/Relative Density/Bulk Density	46925202 46925203 47268003	Ensystem III, Inc. Ensystem III, Inc. Ensystem III, Inc.	OWN OWN OWN	
830.7370	Dissociation Constants in Water	46925202 46925203 47268003	Ensystem III, Inc. Ensystem III, Inc. Ensystem III, Inc.	OWN OWN OWN	
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Ingredient Abamectin					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.7550	Partition Coefficient (n-octanol/water), Shake Flask Method	46925202	Ensystem III, Inc.	OWN	
		46925203	Ensystem III, Inc.	OWN	
		47268003	Ensystem III, Inc.	OWN	
830.7560	Partition Coefficient (n-octanol/water), Generator Column Method				See 830.7550
830.7570	Partition Coefficient (n-octanol/water), Estimation by Liquid Chromatography				See 830.7550
830.7840	Water Solubility: Column Elution Method; Shake Flask Method	46925202	Ensystem III, Inc.	OWN	
		46925203	Ensystem III, Inc.	OWN	
		47268003	Ensystem III, Inc.	OWN	
830.7860	Water Solubility, Generator Column Method				See 830.7860
830.7950	Vapor Pressure				Waiver request ⁴
Ecotoxicity Data Requirements					
850.2100 (71-1(a))	Acute Avian Oral Toxicity: Quail or Duck	00129879 (AC250672)		OLD	See endnote ⁵
850.2200 (71-2(a))	Acute Avian Dietary Toxicity: Quail	00129880 (AC250673)		OLD	See endnote ⁶
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Ingredient Abamectin					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
850.2200 (71-2(b))	Acute Avian Dietary Toxicity: Duck	00129520 (AC250761)		OLD	See endnote ⁷
850.2400 (71-3)	Wild Mammal Toxicity				Not required ⁸
850.2300 (71-4(a))	Avian Reproductive Toxicity: Quail	40318601		OLD	Not required/ See endnote ⁹
850.2300 (71-4(b))	Avian Reproductive Toxicity: Duck	40318601		OLD	See endnote ¹⁰
850.1075 (72-1(a),(b))	Fish Toxicity: Bluegill	00088782 (AC246358)		OLD	See endnote ¹¹
850.1075 (72-1(c),(d))	Fish Toxicity: Trout	00088780 (AC246358)		OLD	See endnote ¹²
850.1010 (72-2(a)(b))	Freshwater Invertebrate Toxicity	00088784 (AC246358) 00153540 (AC74005)		OLD OLD	See endnote ¹³
850.1075 (72-3(a))	Estuarine/Marine Fish Toxicity	00150910 (AC259623)		OLD	See endnote ¹⁴
850.1025 (72-3(b))	Estuarine/Marine Mollusk Toxicity	00159158 (AC252115)		OLD	See endnote ¹⁵
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Ingredient Abamectin					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
850.1035 (72-3(c))	Estuarine/Marine Shrimp Toxicity	00150565 (AC259623) 40856304 40856305		OLD OLD OLD	See endnote ¹⁶
850.1400 (72-4(a))	Early Life Stage: Fish	40069609		OLD	See endnote ¹⁷
850.1300 (72-4(b))	Early Life Stage: Aquatic Invertebrate	00153570 (AC259364)		OLD	See endnote ¹⁸
850.1350	Aquatic Invertebrate Life Cycle (Saltwater)	40856306		OLD	
850.1500 (72-5)	Life Cycle Fish				Not required ¹⁹
Toxicity Data Requirements					
870.1100 (81-1)	Acute Oral Toxicity: Rat	46925205	Ensystem III, Inc.	OWN	
870.1200 (81-2)	Acute Dermal Toxicity: Rat	46925205	Ensystem III, Inc.	OWN	
870.1300 (81-3)	Acute Inhalation Toxicity: Rat	46925206	Ensystem III, Inc.	OWN	
870.2400 (81-4)	Primary Eye Irritation: Rabbit	46925207	Ensystem III, Inc.	OWN	
870.2500 (81-5)	Primary Dermal Irritation	46925208	Ensystem III, Inc.	OWN	
870.2600 (81-6)	Dermal Sensitization	46925209	Ensystem III, Inc.	OWN	
870.3100 (82-1(a))	90-Day Oral Toxicity in Rodents	46959201	Syngenta Crop Protection	PAY	
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Ingredient Abamectin					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
870.3150 (82-1(b))	90-Day Oral Toxicity in Non-Rodents	00131082 00164152		OLD OLD	
870.3200 (82-2)	21-Day Dermal Toxicity				Waived ²⁰
870.3250 (82-3)	90-Day Dermal Toxicity				Waiver ²¹
870.3465 (82-4)	90-Day Inhalation Toxicity				Not required ²²
870.3550 (N/A)	Reproduction/Development Toxicity Screening Test				See 830.3700 and 870.3800
870.3700 (83-3)	Prenatal Development Toxicity Studies	00130819 (AC 249152) 00153124 (AC 073303)		OLD OLD	See endnote ²³
870.3800 (83-4)	Reproduction and Fertility Effects	00164151 (AC265576) 40713404		OLD OLD	See endnote ²⁴
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Ingredient Abamectin					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
870.4100 (83-1(a))	Chronic Toxicity Rat	40069601		OLD	
		40069602		OLD	
		40375511		OLD	
		40375512		OLD	
		40517801		OLD	
870.4100 (83-1(b))	Chronic Toxicity Dog	40375510		OLD	Not required ²⁵
870.4200 (83-2(a))	Carcinogenicity Rat	40069601		OLD	
		40069602		OLD	
		40375511		OLD	
		40375512		OLD	
		40517801		OLD	
870.4200 (83-2(b))	Carcinogenicity Mouse	40069601		OLD	See endnote ²⁶
		40069602		OLD	
		40375511		OLD	
		40375512		OLD	
		40517801		OLD	
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Applicant's/Registrant's Name & Address Ensystem III, Inc. 2713 Breezewood Ave. Fayetteville, NC 28302			Product Abamectin Technical		
Ingredient Abamectin					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
870.4300 (83-5)	Combined Chronic Toxicity/Carcinogenicity	40069601		OLD	See endnote ²⁷
		40069602		OLD	
		40375511		OLD	
		40375512		OLD	
		40517801		OLD	
870.5100 (84-2(a))	Bacterial Reverse Mutation Test	00139573 (AC 252113)		OLD	See endnote ²⁸
		00164016 (AC 265568)		OLD	
		00164017 (AC 265569)		OLD	
		00164018 (AC 265570)		OLD	
		40713402		OLD	
	40713405	OLD			
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Ingredient Abamectin					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
870.5300, 870.5375 (84-2(b))	<i>In vitro</i> Mammalian Cell Gene Mutation Test	00139573 (AC 252113)		OLD	See endnote ²⁹
		00164016 (AC 265568)		OLD	
		00164017 (AC 265569)		OLD	
		00164018 (AC 265570)		OLD	
		40713402		OLD	
		40713405		OLD	
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Ingredient Abamectin					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
870.5385, 870.5395 (84-4)	<i>In vivo</i> Cytogenetics	00139573 (AC 252113)		OLD	See endnote ³⁰
		00164016 (AC 265568)		OLD	
		00164017 (AC 265569)		OLD	
		00164018 (AC 265570)		OLD	
		40713402		OLD	
		40713405		OLD	
870.6100 (81-7 and 82-5)	Acute and 28-Day Delayed Neurotoxicity of Organophosphorus Substances				Not required ³¹
870.6200 (81-8 and 82-7)	Neurotoxicity Screening Battery	44996501	Syngenta Crop Protection	PAY	
		46959201	Syngenta Crop Protection	PAY	
		46959202	Syngenta Crop Protection	PAY	
		46959203	Syngenta Crop Protection	PAY	
870.6300 (83-6)	Developmental Neurotoxicity Study	46727402	Syngenta Crop Protection	PAY	
		47116201	Syngenta Crop Protection	PAY	
		47241801	Syngenta Crop Protection	PAY	
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Ingredient Abamectin					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
870.7200	Companion Animal Safety				Not required ³²
870.7485	Metabolism and Pharmacokinetics	00145888 (AC73761) 00145907 (AC73761)		OLD OLD	See endnote ³³
870.7600 (85-2)	Dermal Penetration	00164161 (AC265590)		OLD	Not required ³⁴
870.7800	Immunotoxicity				Not required
Plant Protection Data Requirements					
850.4100 (122-1(a))	Tier 1: Seed Germination and Seedling Emergence				Not required ³⁵
850.4150 (122-1(b))	Tier 1: Vegetative Vigor				Not required ³⁶
850.4400 (122-2)	Tier 1: Aquatic Plant Growth	00088788 (AC246358) 00088787 (AC246358)		OLD	Not required ³⁷
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Ingredient Abamectin					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
Reentry Exposure Data Requirements					
875.2100 (132-1a)	Foliar Residue Dissipation	00164163 (AC265591) 40443011		OLD OLD	See endnote ³⁸
875.2400 (133-3)	Dermal Passive Dosimetry Exposure	44972201 45262901 45262902 45663701 45663703	Outdoor Residential Exposure Task Force Outdoor Residential Exposure Task Force Outdoor Residential Exposure Task Force Outdoor Residential Exposure Task Force Outdoor Residential Exposure Task Force	OWN OWN OWN OWN OWN	
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Ingredient Abamectin					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
875.2500 (133-4)	Inhalation Passive Dosimetry Exposure	44972201	Outdoor Residential Exposure Task Force	OWN	
		45262901	Outdoor Residential Exposure Task Force	OWN	
		45262902	Outdoor Residential Exposure Task Force	OWN	
		45663701	Outdoor Residential Exposure Task Force	OWN	
		45663703	Outdoor Residential Exposure Task Force	OWN	
Nontarget Insect Data Requirements					
850.3020 (141-1)	Acute Contact Toxicity: Honey Bee	00159161 (AC252115)		OLD	See endnote ³⁹
Environmental Fate Data Requirements					
835.2120 (161-1)	Hydrolysis	00159163 (AC252115)		OLD	
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Ingredient Abamectin					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
835.2240 (161-2)	Photodegradation in Water	00159163 (AC252115)		OLD	See endnote ⁴⁰
835.2410 (161-3)	Photodegradation in Soil	00159163 (AC252115)		OLD	See endnote ⁴¹
835.2370 (161-4)	Photodegradation in Air				Not required
835.4100 (162-1)	Aerobic Soil Metabolism	00159163 (AC252115)		OLD	See endnote ⁴²
835.4200 (162-2)	Anaerobic Soil Metabolism	00159163 (AC252115)		OLD	See endnote ⁴³
835.4300 (162-3)	Anaerobic Aquatic Metabolism	00159163 (AC252115)		OLD	
835.4400 (162-4)	Aerobic Aquatic Metabolism	00159163 (AC252115)		OLD	
835.1230, 835.1240 (163-1)	Leaching and Adsorption/Desorption	40856301 00159163 (AC 252115)		OLD	See endnote ⁴⁴
Signature			Name and Title Janelle Kay, Consultant		Date

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DATA MATRIX

Date Sept. 19, 2008			EPA Reg No./File Symbol 82957-L		Page of 15
Applicant's/Registrant's Name & Address Ensystem III, Inc. 2713 Breezewood Ave. Fayetteville, NC 28302			Product Abamectin Technical		
Ingredient Abamectin					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
835.6100 (164-1)	Soil Field Dissipation Study	00161179 (AC 072437) 00153569 (AC 259365) 42627601 45906202	Syngenta Crop Protection	OLD OLD OLD PAY	See endnote ⁴⁵
835.6200 (164-2)	Aquatic Sediment Field Dissipation Study				Not required ⁴⁶
835.6300 (164-3)	Forest Field Dissipation Study				Not required ⁴⁷
164-5	Long Term Field Dissipation Study				Not required ⁴⁸
165-1	Confined Crop Rotation Study				Not required ⁴⁹
165-3	Accumulation – Irrigated Crops				Not required ⁵⁰
850.1710 (165-4)	Accumulation in Fish	00159163 (AC252115)		OLD	See endnote ⁵¹
835.7100 (166-1)	Small-Scale Prospective Groundwater Study				Not required
835.7100 (166-2)	Small-Scale Retrospective Groundwater Study				Not required
Residue Chemistry Data Requirements					
860.1100 (171-2)	Chemical Identity		Ensystem III, Inc.	OWN	
Signature			Name and Title Janelle Kay, Consultant		Date

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DATA MATRIX

Date Sept. 19, 2008			EPA Reg No./File Symbol 82957-L		Page of 15
Applicant's/Registrant's Name & Address Ensysstex III, Inc. 2713 Breezewood Ave. Fayetteville, NC 28302			Product Abamectin Technical		
Ingredient Abamectin					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1200 (171-3)	Directions for Use		Ensysstex III, Inc.	OWN	See label
860.1300 (171-4(a))	Nature of the Residue: Plants				Not required ⁵²
860.1300 (171-4(b))	Nature of the Residue: Livestock				Not required ⁵³
860.1340 (171-4(c)) - Plants	Residue Analytical Methods: Plants	44878101	Whitmire Micro-Gen Research Laboratories	PAY	
		44933401	Whitmire Micro-Gen Research Laboratories	PAY	
		44933402	Whitmire Micro-Gen Research Laboratories	PAY	
		44933403	Whitmire Micro-Gen Research Laboratories	PAY	
860.1340 (171-4(d))	Residue Analytical Methods: Animal				Not required ⁵⁴
Signature			Name and Title Janelle Kay, Consultant		Date

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DATA MATRIX

Date Sept. 19, 2008			EPA Reg No./File Symbol 82957-L		Page of 15
Applicant's/Registrant's Name & Address Ensystex III, Inc. 2713 Breezewood Ave. Fayetteville, NC 28302			Product Abamectin Technical		
Ingredient Abamectin					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1380 (171-4(e))	Storage Stability	44878101	Whitmire Micro-Gen Research Laboratories	PAY	
		44933401	Whitmire Micro-Gen Research Laboratories	PAY	
		44933402	Whitmire Micro-Gen Research Laboratories	PAY	
		44933403	Whitmire Micro-Gen Research Laboratories	PAY	
860.1400 (171-4(f,g,h))	Magnitude of Residue: Water, Fish, and Irrigated Crops				Not required ⁵⁵
860.1460 (171-4(i))	Magnitude of Residue: Food Handling Establishments	44878101	Whitmire Micro-Gen Research Laboratories	PAY	
		44933401	Whitmire Micro-Gen Research Laboratories	PAY	
		44933402	Whitmire Micro-Gen Research Laboratories	PAY	
		44933403	Whitmire Micro-Gen Research Laboratories	PAY	
860.1480 (171-4(j))	Magnitude of Residue: Meat/Milk/Poultry/Eggs				Not required ⁵⁶
860.1500 (171-4(k))	Magnitude of Residue in Plants				Not required ⁵⁷
Signature			Name and Title Janelle Kay, Consultant		Date

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DATA MATRIX

Date Sept. 19, 2008			EPA Reg No./File Symbol 82957-L		Page of 15
Applicant's/Registrant's Name & Address Ensystem III, Inc. 2713 Breezewood Ave. Fayetteville, NC 28302			Product Abamectin Technical		
Ingredient Abamectin					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1520 (171-4(I))	Magnitude of Residue in Processed Food/Feed				Not required ⁵⁸
Signature			Name and Title Janelle Kay, Consultant		Date

Endnotes for Data Matrix for Abamectin Technical

- ¹ **830.1650** – Per OPPTS 830.1000, these data are not required for the registration of a technical product. See 830.1620 for production process information.
- ² **830.6314, 830.6315, 830.6316, 830.6317, 830.6319, 830.6320, 830.6321, 830.7100** – Per OPPTS 830.1000, these data are not required for the registration of a technical grade active ingredient.
- ³ **830.7220** – Boiling point/range data are only required for liquids. Abamectin Technical is a solid; see 830.7200 for melting point data.
- ⁴ **830.7950** - Waiver request. Ensystex III, Inc. is seeking a waiver for the vapor pressure requirement on the basis that data are not required for materials that are a solid at room temperature and have a low vapor pressure.
- ⁵ **71-1(a)** – According to a 10/14/83 EPA DER, the study is classified as acceptable (Attachment 5).
- ⁶ **71-2(a)** – According to a 10/14/83 EPA DER, the study is classified as acceptable (Attachment 5).
- ⁷ **71-2(b)** – According to a 10/14/83 EPA DER, the study is classified as acceptable (Attachment 5).
- ⁸ **71-3** - Data are not required as no data have been submitted in response to this guideline requirement. Please refer to the toxicity section. Furthermore, 40 CFR Part 158 states that these data are only required based on the results of lower tier studies, intended use pattern, and pertinent environmental fate characteristics. Because the lower tier studies did not trigger additional testing (practically nontoxic to moderately toxic), these data are not required.
- ⁹ **71-4(a)** – According to NPIRS no data have been submitted to satisfy this data requirement. Therefore, mallard data submitted under 71-4(a) have been cited for this data requirement.
- ¹⁰ **71-4(b)** – According to a 9/23/87 EPA DER, the study is classified as acceptable (Attachment 15).
- ¹¹ **72-1(a,b)** – According to a 12/17/81 EPA DER, the study is acceptable (Attachment 3).
- ¹² **72-1(c,d)** – According to a 12/15/81 EPA DER, the study is classified as acceptable (Attachment 2).
- ¹³ **72-2(a,b)** – According to a 12/18/81 EPA DER, MRID 00088784 is classified as acceptable (Attachment 4). According to a 2/11/86 EPA DER, MRID 00153540 is classified as acceptable (Attachment 10) (study conducted on a major soil metabolite).
- ¹⁴ **72-3(a)** – According to a 2/14/85, EPA DER, the study is classified as acceptable (Attachment 11).
- ¹⁵ **72-3(b)** – According to a 3/16/84 EPA DER, the study is classified as acceptable (Attachment 7).
- ¹⁶ **72-3(c)** – According to a 2/14/85, EPA DER, the study is classified as acceptable (Attachment 11).
- ¹⁷ **72-4(a)** – According to a 9/11/87 DER, MRID 40006969 is acceptable and satisfies the data requirement (Attachment 14).
- ¹⁸ **72-4(b)** - According to a 1/31/86 DER, MRID 00153570 is acceptable and satisfies the data requirement (Attachment 13).
- ¹⁹ **72-5** - These data are not required for the proposed limited use because 40 CFR Part 158 states that these data are required if the product is applied directly to water or expected to be transported to water from the intended use site and when one of several other conditions apply. Abamectin Technical is not proposed for formulation into end-use products applied directly to water and its terrestrial outdoor applications is limited and transport to water is not expected.
- ²⁰ **870.3200** – According to the June 1, 1989 Tox. One-Liners, this data requirement is waived. This is supported by the fact that no data have been submitted to satisfy this guideline requirement.
- ²¹ **870.3250** – EPA waived the requirement for submission of subchronic dermal toxicity testing in its June 1, 1989 Tox. One-Liners.

Endnotes for Data Matrix for Abamectin Technical

- ²² **870.3465** – According to 40 CFR Part 158, these data are only required for products where use may result in repeated inhalation exposure to the pesticide as a gas, vapor, or aerosol. Abamectin Technical is proposed only for formulation on limited indoor/outdoor use sites and inhalation exposure is expected to be minimal. In addition, Abamectin Technical is a solid and any related Ensystex end-use products are gel or granular baits. As such, there would be no exposure to abamectin as a gas, vapor or aerosol. Therefore, these data are not required.
- ²³ **83-3(a)** – A 12/5/84 EPA memo classified MRID 00130819 as supplemental and requested the submission of historical control data. These data were submitted under MRID 00153124 and upgraded the original submission to acceptable (Attachment 8). Note: Ensystex III's Abamectin Technical is not proposed for formulation into end-use products used on growing crops. Therefore, teratogenicity data submitted using plant degradates/metabolites are not required for the limited proposed uses and are not cited here.
- ²⁴ **870.3800** – According to 11/9/87 DER, MRID 00164151 is considered acceptable.
- ²⁵ **870.4100** – According to a 3/17/89 DER, the study cited is classified as acceptable (Attachment 16). However, these data are no longer required.
- ²⁶ **870.4200** – According to a 3/17/89 DER, the data cited are classified as minimum (Attachment 16).
- ²⁷ **870.4300** – According to a 3/17/89 DER, the data cited are classified as minimum (Attachment 16).
- ²⁸ **870.5100** – A 4/23/87 EPA memo classifies the studies cited as acceptable (Attachment 20). Note: Ensystex III's Abamectin Technical is not proposed for formulation into end-use products used on growing crops. Therefore, mutagenicity data submitted using plant degradates/metabolites are not required for the limited proposed uses and are not cited here.
- ²⁹ **870.5375** – A 4/23/87 EPA memo classifies the studies cited as acceptable (Attachment 20). Note: Ensystex III's Abamectin Technical is not proposed for formulation into end-use products used on growing crops. Therefore, mutagenicity data submitted using plant degradates/metabolites are not required for the limited proposed uses and are not cited here.
- ³⁰ **870.5395** – A 7/8/93 EPA memo (Attachment 21) classifies the study cited as acceptable (MRID 00139573 is study numbers 82-8520, 23, and 25 (see page 25 of the EPA memo)). Note: Ensystex III's Abamectin Technical is not proposed for formulation into end-use products used on growing crops. Therefore, mutagenicity data submitted using plant degradates/metabolites are not required for the limited proposed uses and are not cited here.
- ³¹ **870.6100** – Product is not an organophosphorus substance; therefore, these data are not required. In fact, the June 1, 1989 Tox. One-Liners (Attachment 19) indicate these data are waived.
- ³² **870.7200** – Abamectin Technical is not proposed for formulation into use on domestic animals; therefore, these data are not required.
- ³³ **870.7485** – According to a 7/8/93 Peer Review (Attachment 21), the studies cited are acceptable and satisfy the data requirement.
- ³⁴ **870.7600** – Abamectin Technical is proposed for limited use patterns and is dermal exposure is not a significant route of human exposure. Therefore, according to 40 CFR Part 158, these data are not required. However, EPA concluded based on the supplementary study cited that the maximum dermal absorption is 1% of the applied dose (Attachment 20).
- ³⁵ **122-1(a)** – Abamectin Technical is not proposed formulation for use in forests and natural grasslands. Therefore, according to 40 CFR Part 158, these data are not required. Also, no data appear to have been submitted to satisfy this data requirement.
- ³⁶ **122-1(b)** – Abamectin Technical is not proposed formulation for use in forests and natural grasslands. Therefore, according to 40 CFR Part 158, these data are not required. Also, no data appear to have been submitted to satisfy this data requirement.

Endnotes for Data Matrix for Abamectin Technical

- ³⁷ **122-2** – Abamectin Technical is not proposed formulation for use in forests and natural grasslands. Therefore, according to 40 CFR Part 158, these data are not required. However, according to EPA DER's dated 12/5/81, the studies cited are acceptable (Attachment 1).
- ³⁸ **132-1(a)** – A 4/21/88 EPA memo (Attachment 22) classifies 00164163 as acceptable for nonarid areas. Based on an EPA memo of 8/10/88 (Attachment 22), MRID 40443011 was classified as acceptable pending submission of storage stability data. An MRID number for that storage stability data could not be located, but is presumed to have been submitted and the guideline satisfied. Note: turf or ornamental foliar dissipation data could not be located; it is assumed citrus foliar dissipation data satisfy the data requirement.
- ³⁹ **141-1** – According to a 2/7/84 EPA DER, the study is classified as acceptable (Attachment 6).
- ⁴⁰ **161-2** – According to a 3/28/84 EPA DER, the study is classified as acceptable (Attachment 18).
- ⁴¹ **161-3** – According to a 3/28/84 EPA DER, the study is classified as acceptable (Attachment 18).
- ⁴² **162-1** – According to a 3/28/84 EPA DER, the study is classified as acceptable (Attachment 18).
- ⁴³ **162-2** – According to a 3/28/84 EPA DER, the study is classified as acceptable (Attachment 18).
- ⁴⁴ **163-1** – According to a 1/18/90 DER, MRID 40856301 is acceptable (Attachment 17). According to a 3/28/84 EPA DER, MRID 00159163 is classified as acceptable (Attachment 18).
- ⁴⁵ **164-1** – According to 9/5/85 and 11/4/85 DERs, MRID 00161179 is considered acceptable and satisfies the data requirement (Attachment 9). According to 3/18/86 and 6/6/86 DERs, MRID 00153569 is considered acceptable and satisfies the data requirement (Attachment 12).
- ⁴⁶ **164-2** – Abamectin Technical is not proposed for formulation into products used in or on aquatic use sites; therefore, according to 40 CFR Part 158, these data are not required.
- ⁴⁷ **164-3** – Abamectin Technical is not proposed for formulation into products used in or on forestry sites; therefore, according to 40 CFR Part 158, these data are not required.
- ⁴⁸ **164-5** – According to 40 CFR Part 158, these data are only required if the product does not readily dissipate. According to a 9/5/85 EPA memo, abamectin readily dissipates with a half-life of less than one-month.
- ⁴⁹ **165-1** – Abamectin Technical is not proposed for formulation into products used in or on growing crops; therefore, according to 40 CFR Part 158, these data are not required.
- ⁵⁰ **165-3** – Abamectin Technical is not proposed for formulation into products used in or on growing crops or aquatic use sites; therefore, according to 40 CFR Part 158, these data are not required.
- ⁵¹ **165-4** – According to a 3/28/84 EPA DER, the study is classified as acceptable (Attachment 18).
- ⁵² **860.1300** - Abamectin Technical is not proposed for formulation into products used in or on growing crops; therefore, according to 40 CFR Part 158, these data are not required.
- ⁵³ **860.1300** - Abamectin Technical is not proposed for formulation into products used in or on growing crops; therefore, according to 40 CFR Part 158, these data are not required.
- ⁵⁴ **860.1340** - Abamectin Technical is not proposed for formulation into products used in or on growing crops; therefore, according to 40 CFR Part 158, these data are not required.
- ⁵⁵ **860.1400** - Abamectin Technical is not proposed for formulation into products used in or on growing crops; therefore, according to 40 CFR Part 158, these data are not required.
- ⁵⁶ **860.1480** - Abamectin Technical is not proposed for formulation into products used in or on growing crops; therefore, according to 40 CFR Part 158, these data are not required.
- ⁵⁷ **860.1500** - Abamectin Technical is not proposed for formulation into products used in or on growing crops; therefore, according to 40 CFR Part 158, these data are not required.

Endnotes for Data Matrix for Abamectin Technical

⁵⁸ **860.1520** - Abamectin Technical is not proposed for formulation into products used in or on growing crops; therefore, according to 40 CFR Part 158, these data are not required.